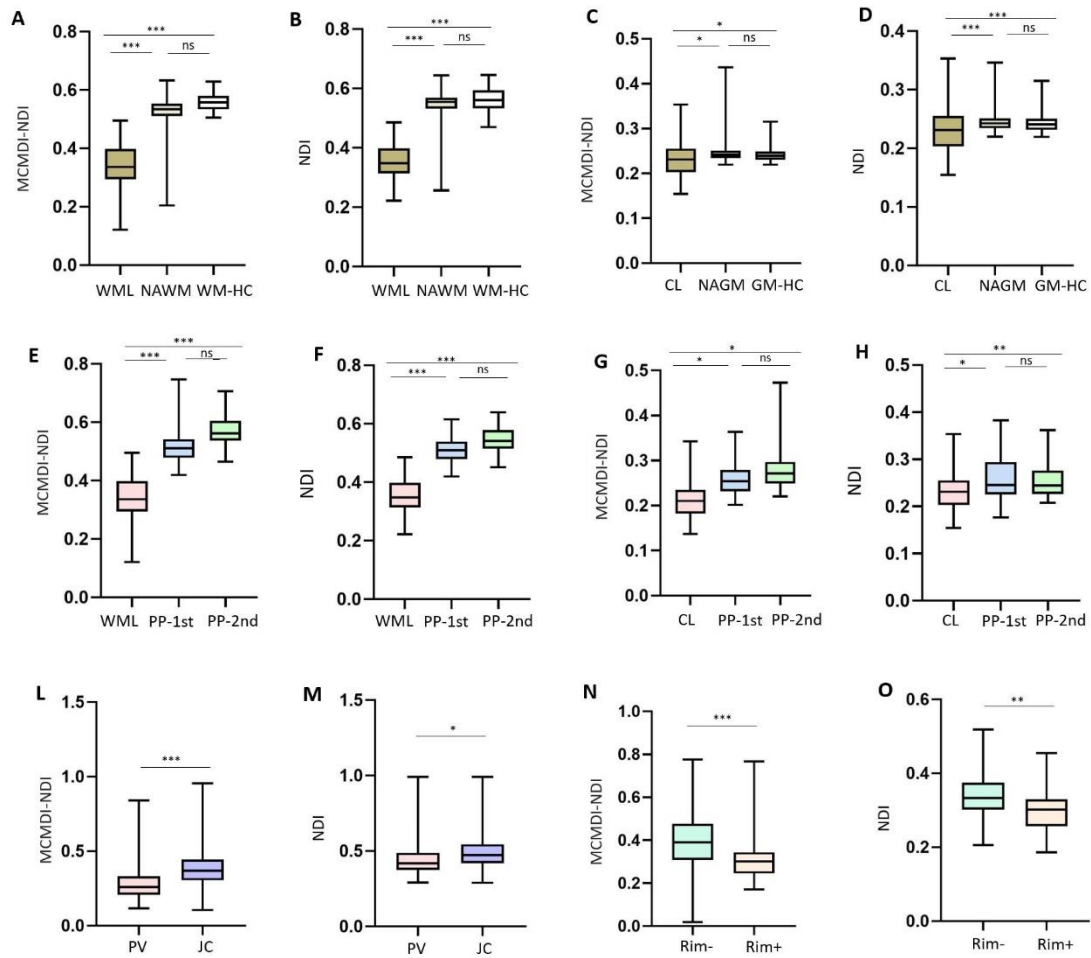
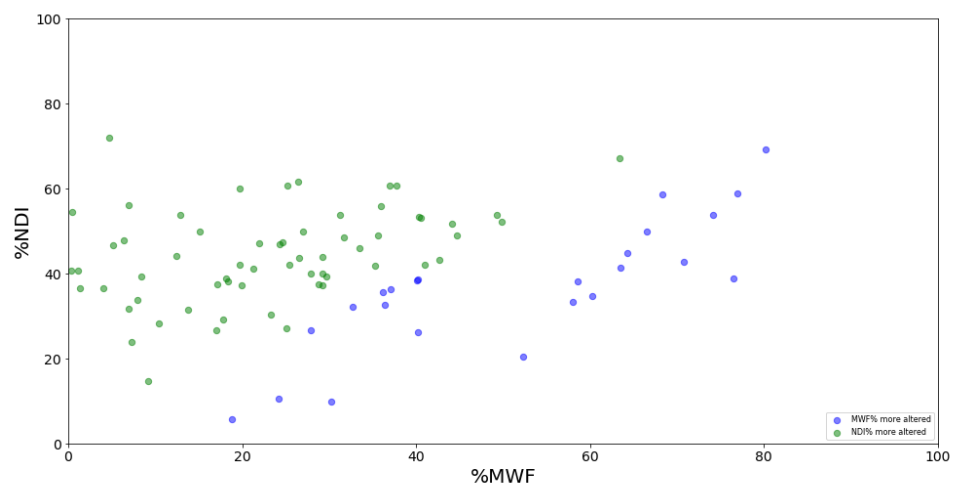


Supplementary data



Supplementary data, Figure 1. **MCDMI-NDI in different types of MS lesions.** A,B) Box plots showing that MCDMI-NDI and NODDI-NDI in WMLs are lower than in NAWM and WM-HC. C,D) Box plots showing that MCDMI-NDI and NODDI-NDI in CLs are lower than in NAGM and GM-HC. E,F) Box plots showing that MCDMI-NDI and NODDI-NDI gradually increase from WML to PP-1st and PP-2nd. G,H) Box plots showing that MCDMI-NDI and NODDI-NDI in CLs are less than in PP-1st and PP-2nd. I,M) MCDMI-NDI and NODDI-NDI are lower in PV lesions than in JC lesions. N,O) MCDMI-NDI and NODDI-NDI are lower in Rim+ lesions than in Rim- lesions. *** $P < 0.0001$; ** $P < 0.001$; * $P < 0.05$.



Supplementary data, Figure 2. **Relative MWF and NODDI-NDI reduction in MS WMLs compared to contralateral NAWM.** In 26% of lesions, %MWF was more reduced than %NDI, whereas in 74% of lesions %NDI showed higher reduction than %MWF.